

83416

s/191/60/000/006/008/015 B004/B054

15.8300

AUTHORS:

Perlin, S. M., Turok, M. M., Grinblat, V. N.

Processing of Polyvinyl Chloride Into Pressure-casting

TITLE:

Products

PERIODICAL:

Plasticheskiye massy, 1960, No. 6, pp. 26 - 30

TEXT: The authors discuss Western papers on the casting of polyvinyl chloride (PVC) and indicate the difficulties: low thermostability, low heat conductivity, position of the softening point near the decomposition temperature. Fig. 1 shows the diagram of a heating cylinder according to data by G. Wick, H. König (Ref. 1). The authors then report on their experiments carried out at the laboratoriya plastmass i reziny VNII burovoy tekhniki (Laboratory of Plastics and Rubber of the All-Union Scientific Research Institute of Drilling Techniques). Parts of turbine drills and other components used in the drilling technique were cast (Fig. 2). For this purpose, two heating cylinders (No.1 - Fig. 3, No.2 - Fig. 4) were constructed, the data of which are given in Table 1. The heating cylinders were used in a Ziegler casting machine of the

card 1/2

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Processing of Polyvinyl Chloride Into Pressure-casting Products

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type JM-7cd (LM-7sb). The following differences between the two cylinders are indicated; cylinder No.1: volume 80 cm3, smallest clearance between cylinder wall and torpedo 4 mm, maximum pressure on the plunger 2000 kg/cm<sup>2</sup>; cylinder No.2: volume 120 cm<sup>3</sup>, clearance 6 mm, maximum pressure 1350 kg/cm2. The substances cast were emulsion-PVC of the type Tro-4 (PF-4), and the composition of the type YTM-2 (UPI-2) (Table 2). Lead silicate was used as stabilizer. By means of cylinder No.2 it was only possible to cast a PVC plasticized by 10% of dibutyl phthalate at a cylinder temperature of 170°C. Table 3 compares the mechanical characteristics of these castings with such of viniplast of the type Ty 3823-53 (TU 3823-53). By means of cylinder No.1 it was possible to cast nonplasticized PVC at temperatures of 160-165°C. The smaller clearance effected higher friction and, thus, an additional temperature increase in the mass itself. For better plastification, a metal mesh was introduced in the nozzle. Better results, however, were attained with a valve shown in Fig. 5. The authors mention papers by E. I. Barg (Ref. 4) and V. A. Kargin, (T. A. Sogolova (Ref. 5). There are 5 figures, 3 tables, and 7 references: 2 Soviet, 3 US, 1 British, and 1 German.

Card 2/2

TUROK, V. L.

USSR/Human and Animal Physiology - Respiration.

T-7

日 使特别的 经加强基本 法国教会

Abs Jour

: Ref Zhur - Biol., No 10, 1953, 46125

Author

: Turok, V.I.

Inst

: Moscow Academy of Agriculture imeni K.A. Timiryazev.

Title

: Gaseous Interchange in the Lungs of Carpatian Mountain

Tsakels and Their Hybrids with Tsigay Rams.

Orig Pub

: Dokl. Mosk. s.-kh. akad. im. K.A. Timiryazeva, 1957,

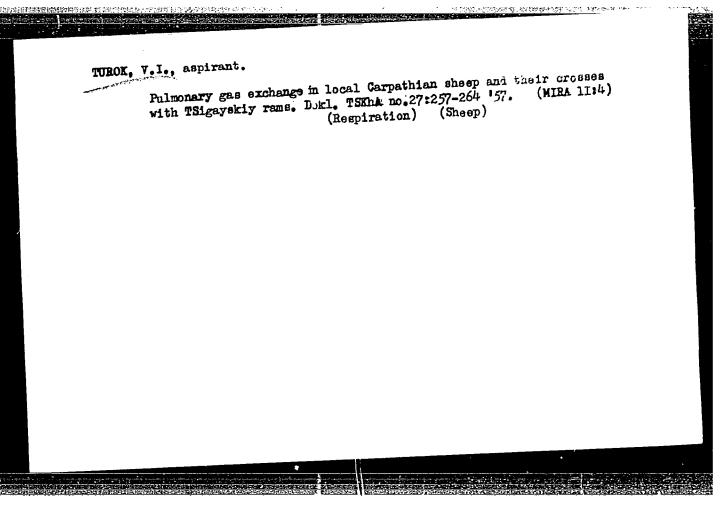
vyp. 27, 257-264.

Abstract : No abstract.

Card 1/1

TUROK, V. I. Cand Biol Sci -- (diss) "Biological characteristics and economic indicators | Indic

25



MIKHAYLOV, M.I., otv. red.; TUROK-POPOV, V.M., red.; VINOGRADOV, V.N., red.; ROGINSKAYA, A.Ye., red.; VOLKOVA, V.V.,

[The labor movement in modern times] Rabochee dvizhenie v novoe vremia; sbornik statei. Moskva, Izd-vo "Nauka," (MIRA 17:3)

1. Akademiya nauk SSSR. Institut istorii.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757530010-2"

DOBROSKOK, I.I.; SURIN, Ye.V.; BROVMAN, M.Ya.; MIKHAYLOV, G.M.;

KRULEVETSKIY, S.A. Prinimali uchastiye: ASFANDIYAROV, R.F.;

BELOV, Ye.M.; IVANOV, V.I.; MARKOV, V.I.; SOLOV'YEV, Yu.P.;

PIMENOV, F.A.; TUROMSHEV, A.F.; KHVES'KO, V.A.; NIKITSKIY, N.V.

Investigating the power parameters of a continuous steel casting plant. Stal! 22 no.3:223-225 Mr !62. (MIFA 15:3)

1. Yuzhnoural'skiy mashinostroitel'nyy zavod (for Asfandiyarov, Belov, Ivanov, Markov, Solov'yev). 2. Novolipetskiy metallurgicheskiy zavod (for Pimenov, Turomshev, Khves'ko). 3. TSentral'nyy nauchno-issledovatel-skiy institut chernoy metallurgii (for Nikitskiy). (Continuous casting—Equipment and supplies)

#### "APPROVED FOR RELEASE: 03/14/2001 CIA-RI

CIA-RDP86-00513R001757530010-2

TUROMSHINA, U. F.

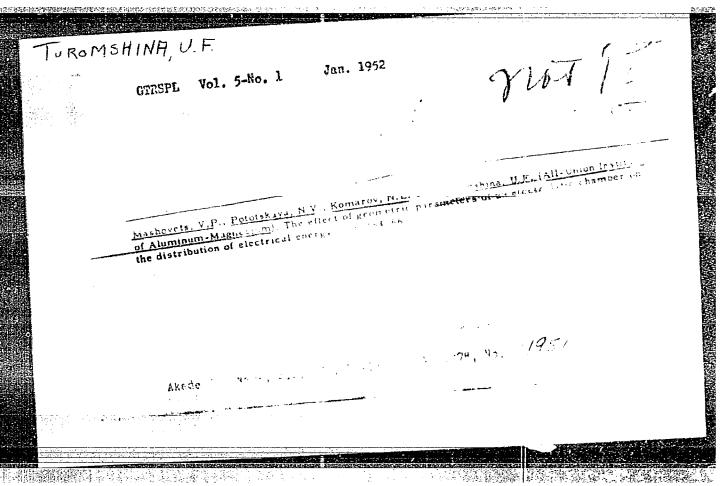
USSR/Chemistry - Production of Aluminum

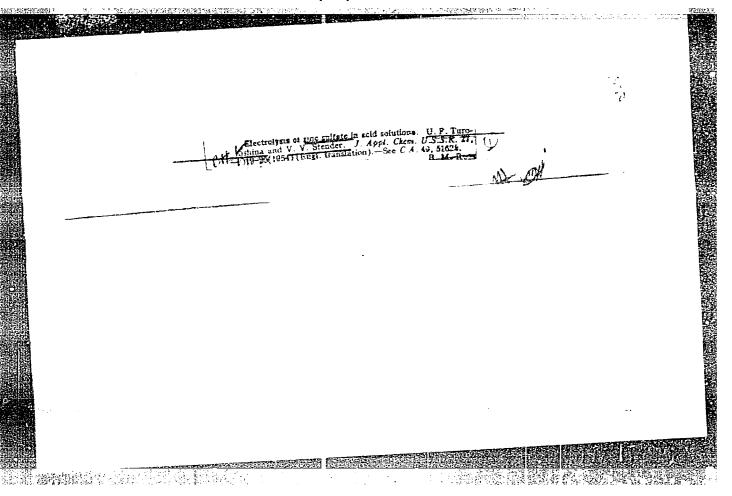
Feb 51

"Effect of the Geometric Parameters of an Electrolytic Cell on the Distribution of Electric Energy in It," V. M. Mashovets, N. V. Pototskaya, N. L. Komarov, U. F. Turomshina, All-Union Aluminum-Magnesium Inst

"Zhur Prik Khim" Vol XXIV, No 2, pp 154-166

Studied structure of elec fld in flat model of Al bath with Cu electrodes and electrolyte of 150 g/l CuSO<sub>4</sub> 5H O, 49 g/l H<sub>2</sub>SO<sub>4</sub>, and 50 g/l alc. Clarified effect of distance from anode to side walls, depth of electrolyte, and interelectrode distance for cells with working and insulated side walls. Proposed more satisfactory formula for "reduced" cross section of electrolyte.





TUROMSHINA, U.F.; STENDER, V.V.

Electrolysis of acidic solutions of zinc sulfate. Thur.prikl.

khim. 27 no.10:1082-1089 0 '54. (MLRA 7:11)

1. Kafedra obshchey khimii Kemerovskogo gornogo instituta i
Institut khimicheskikh nauk Akademii nauk KarSSR.

(Electrolysis) (Einc sulfate)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757530010-2"

1.245的第三人

AID P - 2261

: USSR/Chemistry Subject

Card 1/1 Pub. 152 - 6/19

Authors

Turomshina, U. F. and V. V. Stender

Current efficiency and cathodic potentials in the electrolysis of zinc sulfate solutions in the presence Title

of ions of metals more electronegative than zinc.

Part II.

Periodical: Zhur. prikl. khim., 28, no.2, 166-174, 1955

Abstract : Addition of sodium, calcium, magnesium, and manga-

nese ions resulted in decreasing the current

efficiency (determined by evolution of hydrogen). Nine diagrams, 22 references (21 Russian: 1933-54)

Institution: Institute of Chemical Sciences of the Academy of Sciences

of the Kazakhskaya SSR

Submitted: J1 18, 1953

CIA-RDP86-00513R001757530010-2" APPROVED FOR RELEASE: 03/14/2001

#### CIA-RDP86-00513R001757530010-2 "APPROVED FOR RELEASE: 03/14/2001

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AID P - 2776

Subject

: USSR/Chemistry

Card 1/2

Pub. 152 - 4/19

Authors

Turomshina, U. F. and V. V. Stender

Title

: Current efficiency and cathodic potentials during the electrolysis of zinc sulfate solutions in the presence

of ions of metals more electropositive than zinc.

Part III.

Periodical: Zhur. prikl. khim. 28, 4, 372-387, 1955

Abstract

The effect of the ions of mercury, lead, cadmium, copper, arsenic, antimony, germanium, iron, cobalt, and nickel on the current efficiency was studied. The electrolysis was carried out at 30, 50 and 70°C. The experiments are described in detail. Fourteen diagrams, 41 references (27 Russian:

1933-1955).

Zhur. prikl. khim. 28, 4, 372-387, 1955

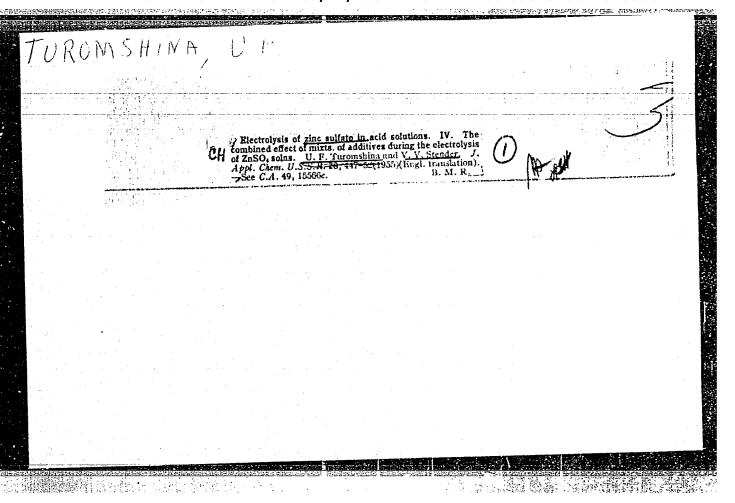
AID P - 2776

Card 2/2 Pub. 152 - 4/19

Institution: Institute of Chemical Sciences of the Academy of

Sciences of the Kazakh SSR.

Submitted: F 23, 1954



TUROMSHINE, WIT

AID P - 3418

Subject

: USSR/Chemistry

Card 1/2

Pub. 152 - 3/18

Authors

: Turomshina, U. F. and V. V. Stender

Title

: The combined effect of additives during the electrolysis of zinc sulfate solutions

Periodical

: Zhur. prikl. khim., 28, 5, 467-474, 1955

Abstract

: Various additives were added to the standard electrolyte containing 60 g Zn and 100 g H<sub>2</sub>SO<sub>4</sub> per liter. The effect of a single additive and the combined effect of two additives on the current efficiency of hydrogen were studied and the data compiled in tables. The sum of the added effects of two additives may be higher or lower than the combined effect of the mixture. The positive difference was compared with promoter action, and the negative difference with catalytic poisoning. Three tables, 9 references, all Russian (1945-1955).

AID P - 3418

Zhur. prikl. khim., 28, 5, 467-474, 1955

Pub. 152 - 3/18 Card 2/2

Institution : Institute of Chemical Sciences of the Academy of Sciences, Kazakh SSR.

Submitted: F 26, 1954

ZABOTIN, P.I.; KIR'YAKOV, G.Z.; TUROMSHINA, U.F.

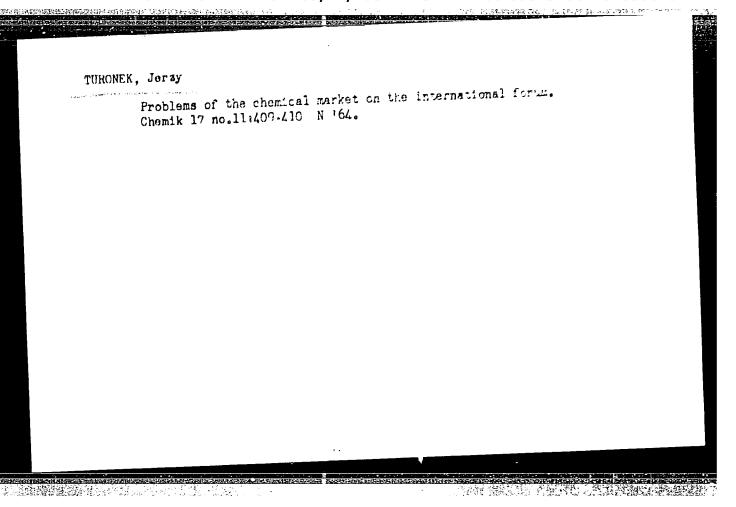
Yield of chromium in relation to the current and pH of the electrolyte. Izv.AN Kazakh, SSR. Ser. khim. no.2:9-13 '59. (MIRA 12:8)

(Chromium)

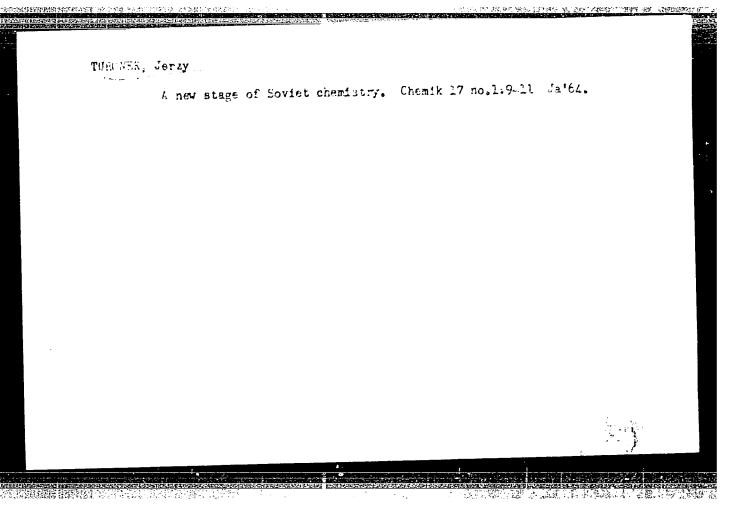
TURON, Slavomir, inz.; PEJCOCH, Osvald, doc., inz., CSc.

Possibility of rail tire rolling without flashes. Hut listy 18 no.9:638-645 S'63.

1. Vitkovicke zelezarny Klementa Gottwalda (for Turon). 2. Vysoka skola banska, Ostrava (for Pejcoch).

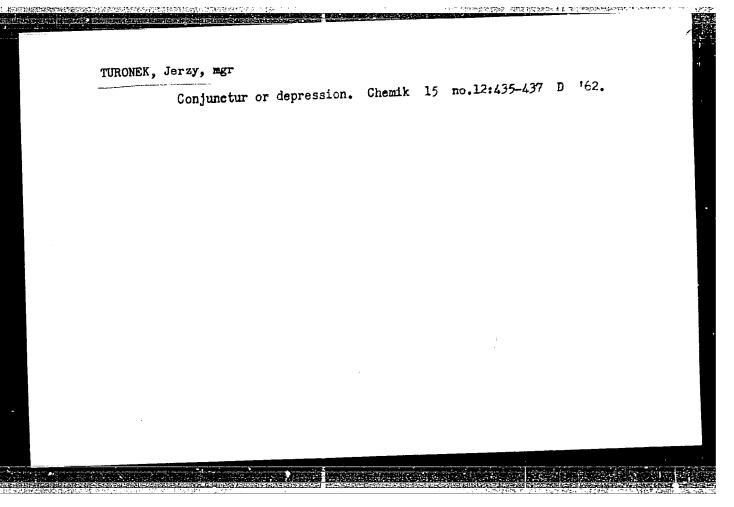


L 38589-66 EWP(t)/ETI/EWP(k) IJP(c) ACC NR. AP6027700	JD/HW SOURCE CODE: CZ/0034/66/000/001/0016/0023	
Turon, Slavomir (Engineer)	fmark, Jiri (Engineer; Candidate of sciences); rks. Ostrava (Vitkovicke zelezarny KG)	
ORG: Klement Gottwald Vitkovice Iron Wor	rks, Ostrava (Vitkovicke zelezarny KG)	
TITIE: Optimum forged rings manufacturing	ng technique	
SOURCE: Hutnicke listy, no. 1, 1966, 16-	-23	
TOPIC TAGS: metal forging, metallurgic	industry	
The optimum forging reduction degree is a ting from the stages of: forging of the biforging process. An equation for the optimum derived. It states that this diameter experience is the state of the forging	billet divided by the product of the wall othods for calculation of the constant are formulas and 6 tables. Based on author's	
Card 1/1 K	UDC: 621.73.032	



TURONEK, Jerzy, mgr

Dyes on the international market. Chemik 16 no.9:279-280 s '63.



TURONEK, Jerzy, mgr

For more activization of the export reserves. Chemik 15 no.4: 117-120 Ap '62.

1. Polska Izba Handlu Zagranicznego, Warszawa.

Müürisepp, Aleksei; Turonok, G., red.

[25th anniversary of Soviet Estonia 25- letie Sovetskoi Estonii. Tallinn, Eesti Raamat, 1965. 176 p. (MIRA 18:8)

1. Predsedatel' Prezidiuma Verkhovnogo Soveta Estonskoy SSR (for Muurisepp).

TO CARROLL MAN COLOR PER TARREST AND ARREST AND ARREST

MOROZOVA, M.G., dotsent; DUSHKINA, M.M., assistent; MAKSIMOVA, T.K., assistent; TURONOK, L.F., assistent; YAKOVENKO, Z.L., assistent

Viacheslav Vasil'evich Aliakritskii (2885-1960); obituary. Arkh. pat. 22 no.5:92-93 '60. (MIRA 13:9) (ALIAKRITSKII, VIACHESLAV VASIL'EVICH, 1885-1960)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757530010-2"

MOROZOVA, M.G.; TROFIMOV, K.A.; MAKSIMOVA, T.K.; TURONOK, L.F.; ABAKUMOVA, A.I.; GLADKIKH, V.G.; YAKOVENKO, Z.L.; KUZNETSOVA, V.I.; DUSHKINA, M.N.; LEYBIN, L.S.; DEKHTYAR', S.M.

Viacheslav Vasil'evich Aliakritskii. Arkh. pat., Moskva 15 no.2: 95-96 Mar-Apr 1953. (CIML 24:3)

1. Professor Vyacheslav Vasil'yevich Alyakritskiy is a Doctor Medical Sciences and Head of the Department of Pathological Anatomy at Voronesh Medical Institute.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757530010-2"

SECTION OF THE PROPERTY OF THE

MOROZOVA, M.G.; TROFIMOV, K.A.; MAKSIMOVA, T.K.; TURONOK, L.F.; ABAKUMOVA, A.I.; GLADKIKH, V.G.; YAKOVENKO, Z.L.; KUZNETSOVA, V.I.; DUSHKINA, M.M.; LEYBIN, L.S., polkovnik meditsinskoy sluzhby; DEKHTYAR, S.M., mayor meditsinskoy sluzhby.

Viacheslav Wasil'evich Aliakritskii. Arkh.pat. 15 no.2:95-96 Mr-Ap '53. (MLRA 6:5)

1. Kafedra patologicheskov anatomii. 2. Gorodskaya prozektura. 3. PAL. (Aliakritskii, Viacheslav Vasil'evich, 1885-)

GOLODNOVA, O.S., inzh.; DEGIL', G.S., inzh.; PANCHENKO, A.U., inzh.; TUROS, A.E., inzh.; MESHKOV, V.K., inzh.

Concerning the seals of hydrogen cooled turbogenerators. Elek. sta. 33 no.8:60-68 Ag '62. (MIRA 15:8)

1. Rostovenergo (for Golodnova). 2. Glavnoye upravleniye energeticheskogo khozyaystva Donetskogo basseyna (for Degil', Panchenko, Turos). 3. Moskovskoye rayonnoye upravleniye energeticheskogo khozyaystva Glavtsentroenergo Ministerstva elektrostantsiy SSSR (for Meshkov).

(Turbogenerators)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757530010-2"

DEGIL, G.S., inzh.; PANCHENKO, A.U., inzh.; TUROS, A.E., inzh.; SAPEL NIKOV, K.N., inzh.; AVRUKH, V.Yu., inzh.; VOINOV, A.G., inzh.

Seals of water-cooled turbogonerators. Elek. sta. 34 no.5:72-79 My 163. (MIRA 16:7)

1. Glavnoye upravleniye energeticheskogo khozyaystva Donetskogo basseyna (for Degil', Panchenko, Turos). 2. Uralenergo (for Sapel'nikov). (Turbogenerators)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757530010-2"

THE PART WAS ABOUT THE

HUNGARY

MANDI, Andras, Dr., TIMAR, Miklos, Dr., TUROS, Eva., Dr.; National Labor Hygiene Institute (Orszagos Munkeegeszsegugyi Intezet).

"Testing of the Mechanics of Respiration in Cases of Silicosis."

Budapest, Orvosi Hetilap, Vol 104, No 45, 10 Nov 63, pages 2126-2129.

Abstract: [Authors' Hungarian summary] Results of respiration mechanical and spirometric testing on 110 cases are reported. Of the patients tested, 75 suffered from silicosis in its various radiological stages. Where the silicosis was complicated by bronchitis, the compliance values showed a definite decrease. A definite compliance decrease was also found in about half of the silicosis cases, where the disease was more severe than the P3 radiological stage, but clinical bronchitis was absent. The possible causes, the indications for the test and the evaluation of the results are also discussed. 2 Hungarian, 5 Western references.

1/1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757530010-2"

MANDI, Andras, dr.; TIMAR, Miklos, dr.; TUROS, Eva, dr.

Respiratory function tests in silicosis. Orv. hetil. 104 no.45: 2126-2129 10 N 163.

1. Orszagos Munkaegeszsegugyi Intezet.
(SILICOSIS) (RESPIRATORY FUNCTION TESTS)
(BRONCHITIS) (PULMONARY EMPHYSEMA)
(BRONCHOSPIROMETRY)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757530010-2"

TIMAR, Miklos, dr.; MANDI, Andras, dr.; TUROS, Eva, dr.

Dust exposition and bronchitis. Munkavedelem 8 no.7/9:36-39 162.

1. Orszagos Munkaegeszsegugyi Intezet. 2. "Munkavedelem" felelos szerkesztoje a munkaegeszsegugyi cikkekert (for Timar).

TUROY, A.

Improving quality control. Sov.torg. 35 no.7:24-26 J1 '62. (MIRA 15:11)

1. Nachal'nik Permakogo oʻzlastnogo upravleniya Glavnogo upravleniya gosudarstvenndy torgovoy inspektsii Ministerstva torgovli RSFSR.

(Retail trade—Quality control)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757530010-2"

SUDZILOVSKIY, G.A., dotsent, kand.filolog.nauk, podpolkovnik zapasa;
BOGDANOVA, K.N.; BURYAKOV, Yu.F.; VORONIN, V.P.; SERGEYEV, O.N.;
TUROV, A.A.; BORISOV, V.V., red.; MARCHENKO, V.G., red.;
SAVIN, B.V., red.-leksikograf; YEFREMOVA, M.K., red.-leksikograf;
KUZ'MIN, I.F., tekhn.red.

[English-Russian military dictionary] Anglo-russkii voennyi slovar'. Sost. Sudzilovskii, G.A., i dr. Pod obshchei red. Sudzilovskogo, G.A. Okolo 50000 terminov. Moskva, Voen.izd-vo M-va obor. SSSR, 1960. 965 p. (English language--Dictionaries--Russian) (Military art and science--Dictionaries)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757530010-2"

**《自對應數的學話》**。

BORISOV, V.V.; DUEYANSKIY, M.A.; STOLBOV, V.S.; TUROV, A.A.; SHUTKIN,
L.N.; YEGOROV, M.P., red.; KUROCHKIN, V.D., red.; EERDNIKOVA,
N.D., red.-leksikograf; SAVIN, B.V., red.-leksikograf;
KRUFENNIKOVA, I.A., red.-leksikograf; DANILOVA, Z.S., red.leksikograf; BUKOVSKAYA, N.A., tekhn. red.

[Dictionary of foreign military abbreviations] Slovar' inostrannykh voennykh sokrashchenii. Pod red. M.P.Egorova. Moskva,
strannykh voennykh sokrashchenii. Pod red. M.P.Egorova. Moskva,
(Mman 15:2)
Voen. izd-vo M-va oborony SSSR, 1961. 891 p. (MTRA 15:2)

(Abbreviations) (Military art and science—Dictionaries)

BURYAKOV, Yu.F.; DREMICHEV, I.D.; DUBOSHIN, V.N.; LOPATIN, R.N.;

MAKSIMOV, M.I.; TUROV, A.A.; VASIL'YEV, A.A., red.;

NIKOLAYEV, N.I., red.; KUROCHKIN, V.D., red.; BALASHOVA,

M.V., red.-lekeikograf; KUZ!MIN, I.F., tekkn. red.

[Anglo-Russian aeronautical dictionary] Anglo-russkii aviationnyi slovar'. Moskva, Voen.izd-vo MOva obor. SSSR,

atsionnyi slovar'. Moskva, Voen.izd-vo MOva obor. SSSR,

(MIRA 16:8)

(Reglish language-Dictionaries-Russian)

(Aeronautics-Dictionaries)

TUROV, A. F., MAPALHOV, A. V. and GHICHVARINA, A. V.

"Principles of Processing of Information in the Internal System of the Organism - external environment."

report to be submitted for the Third Intl. Congress on Cybernetics, Hamur, Belgium, 11-15 Sep 1961

MAPALKOV, A. V. - Chr. Higher Nervous Activity, Moseow State Univ.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757530010-2"

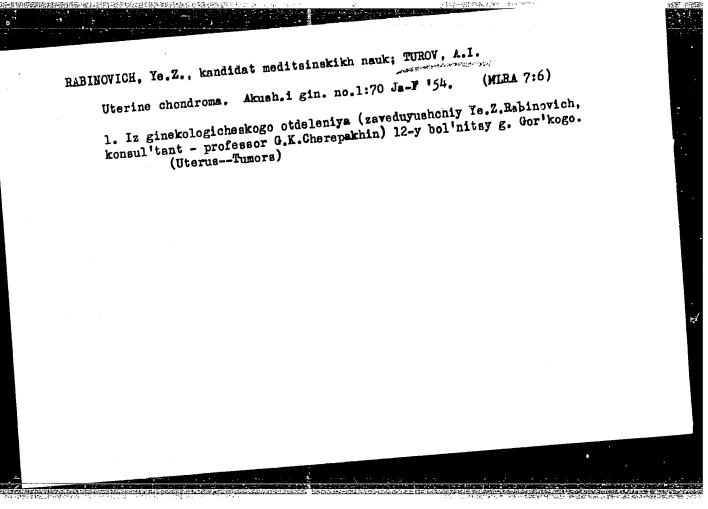
10.000 (10.000 ) 10.000 (10.000 ) 10.000 (10.000 ) 10.000 (10.000 ) 10.000 (10.000 ) 10.000 (10.000 ) 10.000 (

NAPALKOV, A.V., Fand.biologicheskikh nauk; TUROV, A.F., kand.biologiches-kikh nauk

Pattern in the formation of the complex behavior of animals. Biol. v shkole no.5:72-77 S-0 '61. (MIRA 14:9)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. (Animals, Habits and behavior of)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757530010-2"



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s/081/62/000/003/075/090 B149/B101

11.0132

Tereshchenko, Ye. R., Tararyshkin, M. Ye., Turov, A. I.,

Zrelov, V. A., Baranov, B. N.

AUTHORS: Thermal stability and corrosive activity of sulfur-containing TITLE:

fuels at elevated temperatures

PERIODICAL: Referativny, whurnal. Khimiya, no. 3, 1962, 489, abstract 3M193 (Sb. "Khimiya sersorgan. soyedineniy, soderzhashchikhsya

v neftyakh i nefteproduktakh. v. 4"., M., Gostoptekhizdat,

1961, 231 - 235)

TEXT: The following fuels were investigated: standard To -1 (TS-1), 13-1 purified by hydrotreating, TS-1 with high mercaptan content, and a 7-2(7-0) type fuel from a wide fraction containing components of thermal cracking. The thermal stability and corrosive activity of the sulfur-containing fuels were studied under static conditions in a bomb; and also when the fuel was pumped through a filter and through an actual fuel system of a motor. It was shown that of the fuels investigated, T-2 containing cracking components ani T3-1 with a high mercaptan content had the lowest thermal stability at Card (1/2')

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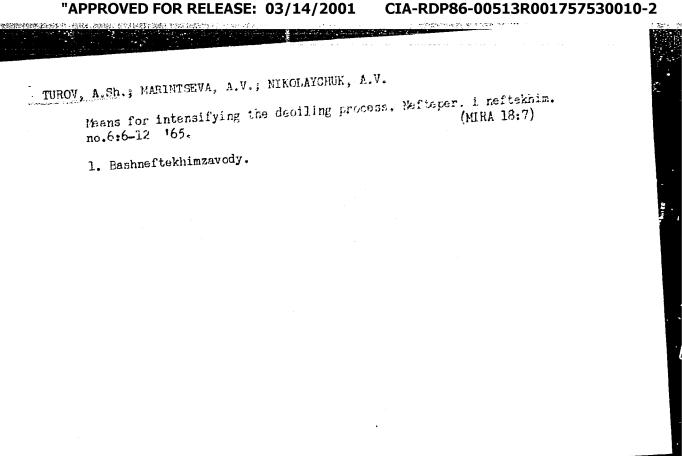
CIA-RDP86-00513R001757530010-2

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Thermal stability and ...

120°C. Pumping of these fuels at the temperature mentioned results in rapid clossing of the filter and is accompanied by the formation of a deposit on the fuel-utilizing components of the unit. TS-1 with a high content of mercaptans (0.032%) had the highest corrosive activity; T-2 had low corrosive activity. TS-1 purified by hydrotreating had the best thermal stability and insignificant corrosive activity. It was shown that hydrotreating during the production of fuels of the TS-1 type resulted in considerably higher thermal stability and in lowered corrosive activity of fuels obtained from Eastern petroleums. [Abstracter's note: Complete translation.]

Card 2/2



CIA-RDP86-00513R001757530010-2" APPROVED FOR RELEASE: 03/14/2001

TUROV, A.Sh.; MIKOLAYCHUK, A.V.

Rosults of redecigning an oil-extracting device. Refreger. 1
noftekhim. no.5:3.9 163.

1. Nove-Ufimskiy neftepererabatyvayushchiy zavod.

Shortcomings in operations of the "Third International" ring.

Gor.zhur. no.6:80 Je '57.

1.Shakhta Kapital'naya.

(Nine management)

AUTHORS: Vinegradov, P. A.; Dolgoplosk, B. A. (Academician); Zgonnik, V. N.; Parenago, O. P.; Tinyakova, Ye. I.; Turov, B. S. 445  TITLE: The role of electron-donor additives, water, and alkylating agents in the stereospecific polymerization of butadiene under the influence of a cobalt catalytic system  SOURCE: AN SSSR. Doklady, v. 163, no. 5, 1965, 1147-1150  TOFIC LACE: stereospecific polymerization, polymer, butadiene, cobalt, catalyst information concerning the stereospecific catalytic activity of cobalt catalytic information concerning the stereospecific catalytic activity of cobalt catalytic information concerning the stereospecific catalytic activity of cobalt catalytic polymer studied was butadiene. The experimental results are shown graphically in polymer studied was butadiene. The experimental results are shown graphically in Figs. 1 and 2 on the Enclosure. It is concluded that the addition of AlCl <sub>3</sub> , Figs. 1 and 2 on the Enclosure. The succession of the rate of polymerization, formation of 1,4 cis rings, the molecular weight, and the rate of polymerization, whereas the addition of R <sub>3</sub> Al, RSR, ROR, R <sub>3</sub> H, KCl, and NaCl decreases the number Card 1/4			,	TD/HM/RM	<b>i</b> 
Card 1/4	ACCES AUTHO Parer TITLE stere cata SOUR TOFI ABST info syst poly Fige RAIC	CHART: The object of the interest (B. S. Turos and F. A. Turos	olgoplosk, B. A. (Academician I.: Turov, B. S. 445) onor additives, water, and all of butadiene under the influence of butadiene of	the currently available ty of cobalt catalyst of cobalt catalyst addition of AlCl <sub>3</sub> ,  In RCl increases the catalyst of cobalt catalyst are shown graphically in addition of AlCl <sub>3</sub> ,	n
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	of 1,2 rings has: 1 tabl	s, the mole, 3 gro	olecular aphs, and	weight,	and thations.	e rate	of pol	ymerisat	ion. (	rig. a	rt.			
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AFFTC/ASD EPR/EWP(j)/EPF(c)/EWT(m)/BDS 8/0020/63/151/005/1118/1119 L 15461-63 ACCESSION NR: AP3005443 RM/WW AUTHORS: Turov. B. S.: Vinogradov, P. A.; Dolgoplosk, B. A. (Corr. Member AS, Soon); Rostina, S. I. Influence of electron donor additives on the chain structure in stereospecific polymerization of butadiene SOURCE: AN SSSR. Doklady, v. 151, no. 5, 1963, 1118-1119 TOPIC TAGS: electron donor, butadiene polymerization, stereospacific polymerization, cis-polybutadiene, trans-polybutadiene The effect of thio-ethers and tertiary amines (dibutyl sulfide and triethylamine) on butadiene polymerization was studied as a continuation of earlier study by the authors (DAN, 146, 1141 (1962)) of the effect of straight ethers. These compounds had less effect of the effect of straight ethers. on polymerization rate than the straight ethers. They did offect an increase in the amount of 1,4-trans isomer by decreasing the 1,4-cispolybutadiene. There was no lowering of solubility or unsaturation in
the polymer formed. Experiment shows the cis-polybutadiene does not Card 1/2

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ACCESSION NR: AP3005443

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undergo changes in presence of donor additives and components of the catalyst system TiI, + (iso-Cl.Hq)3Al. Trans-members are formed only in the polymerization process by the direct participation of complexes containing the electron-donor additives. Orig. art. has: 1 figure.

ASSOCIATION: Yarovslavskiy zavod sinteticheskogo kauchuka

(Yaroslav synthetic rubber plant)

SUBMITTED: 07May 63

DATE ACQ: 06Sep63

ENCL: 00

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SUB CODE:

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NO REF SOV:

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OTHER: 003

Card 2/2

# "APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757530010-2

VINCOPADOV, T.A.; BOLACILOSK, B.A., akademik; EGONNIK, V.N.; PAPENAGO, O.F.; TINYAKOVA, Ye.I.; TUROV, R.S.

Role of electron-donor additions, water, and alkylating agents in the storeospecific polymerization of butadi re under the effect of a cobalt catalytic system, Doki. At SMER 163 no.531147-1150 Ag 165.

1. Enstitut meftekhimicheskogo sinteza AN SSSR.

s/0020/64/155/004/0874/0875

ACCESSION NR: AP4030787

AUTHOR: Turov, B. S.; Vinogradov, P. A.; Dolgoplosk, B. A. (Corresponding member); Kostina, S. I.; Kastorskiy, L. P.

TITIE: Effect of electron donor additives on the microstructure of the chain by stereospecific polymerization of butadiene in the presence of "cobaltic" catalytic systems.

SOURCE: AN SSSR. Doklady\*, v. 155, no. 4, 1964, 874-875

TOPIC TAGS: butadiene, polymerization, polybutadiene, electron donor additive, chain microstructure, cobaltic catalyst system, stereospecific polymerization, dialkylsulfide, simple ether, tertiary amine, cobalt chloride ethanol complex, diisobutylaluminum chloride, polymerization rate, molecular weight

ABSTRACT: The effect of dialkylsulfides, simple ethers and tertiary amines on the microstructure of the chain formed by polymerizing butadiene in a catalytic system consisting of the CoCl<sub>2</sub>-C<sub>2</sub>H<sub>2</sub>OH complex and diisobutylaluminum chloride dissolved in a hydrocarbon was investigated. Experiments were run in benzene at 30C using 0.01 wt.% (based on monomer) of the CoCl<sub>2</sub>-catalyst. Microstructure

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ACCESSION NR: AP4030787

was determined quantitatively from IR spectra at 912 and 966 cm<sup>-1</sup>. Introduction of dialkylsulfides into the polymerization system changes the structure of the polybutadiene: the 1,4-cis units decrease as the 1,2-units increase, while the amount of 1,4-trans linkages remains constant. Simple ethers and tertiary amines have a similar effect on the microstructure of the polybutadiene. All these additives in even small amounts (above 0.1 mol/mol of diisobutylaluminum chloride) rapidly decrease the rate of polymerization. The electron donors lower the molecular weight of the polymers. Thus, there is agreement between the change in the chain microstructure and the molecular reight of the polymer. Orig. art.

ASSOCIATION: None

SURMITTED: 19Nov63

DATE ACQ: 30Aprol

ENCL: 00

SUB CODE: OC

NO REF SOV: 006

OTHER: 004

Card 2/2

TUROV, B.S.; VINOGRADOV, P.A.; DOLGOPLOSK, B.A.; KOSTINA, S.I.

Effect of electron-donor additions on the chain structure in the stereospecific polymerization of butadiene. Dokl. AN SSSR 151 no.5%1118-1119 Ag '66. (MIRA 16:9)

1. Yaroslavskiy zavod sinteticheskogo kauchuka. 2. Chlen-korrespondent AN SSSR (for Dolgoplosk).

(Butadiene) (Polymerization) (Stereochemistry)

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